

Fig. 1

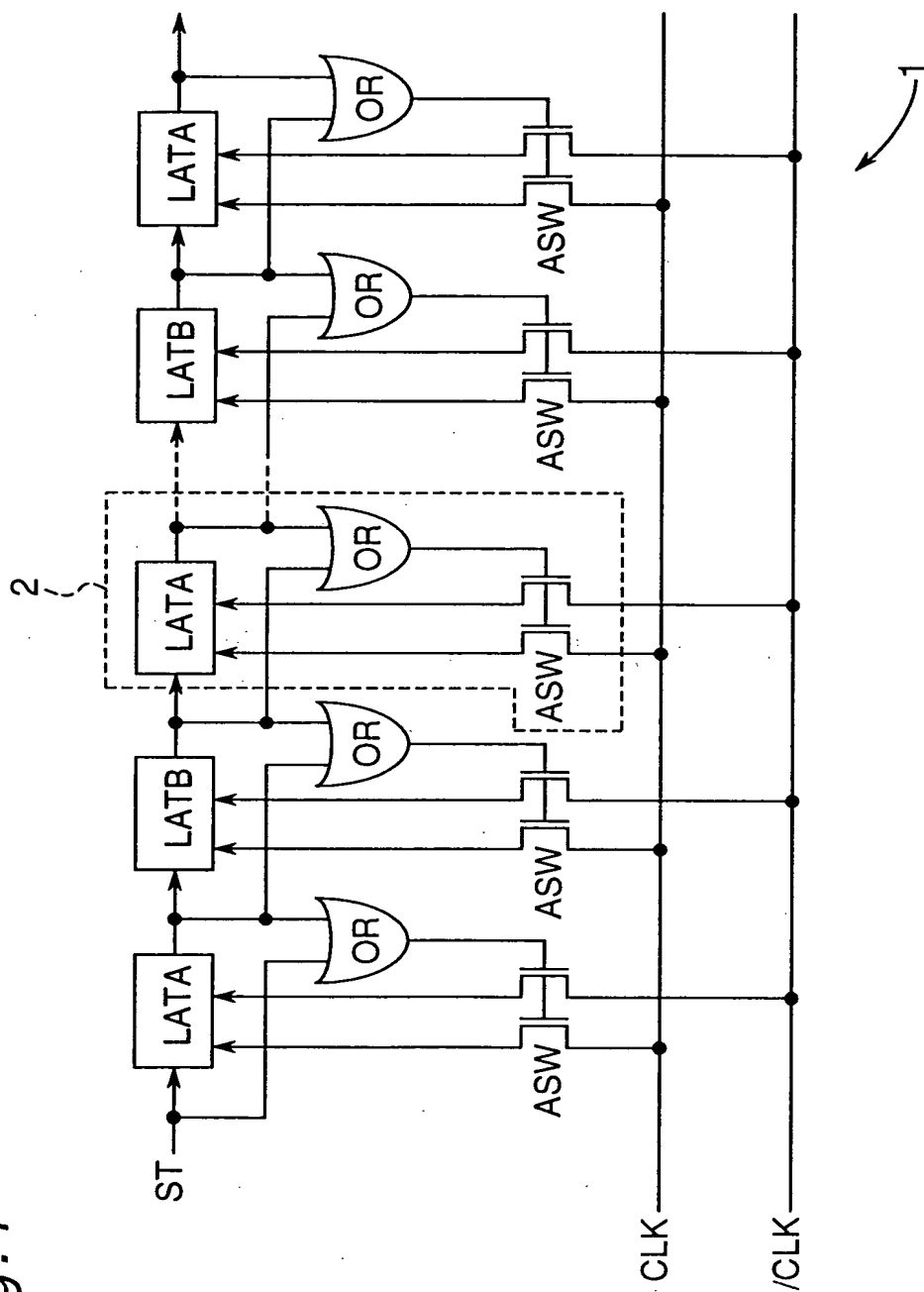




Fig.2A RELATED ART



Fig.2B RELATED ART



Fig.2C RELATED ART



Fig.3A RELATED ART



Fig.3B RELATED ART



Fig.3C RELATED ART



Fig. 4A



Fig. 4B

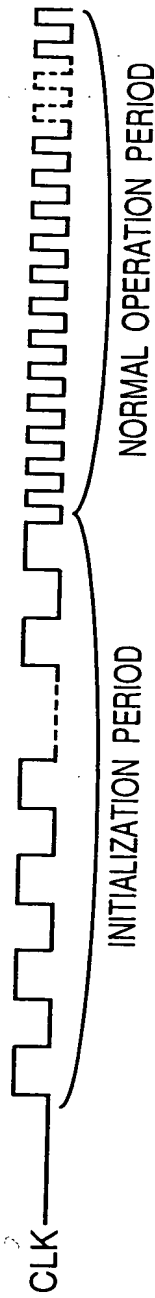


Fig. 5A



Fig. 5B



Fig. 5C

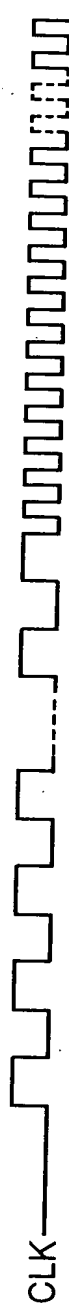


Fig. 5D

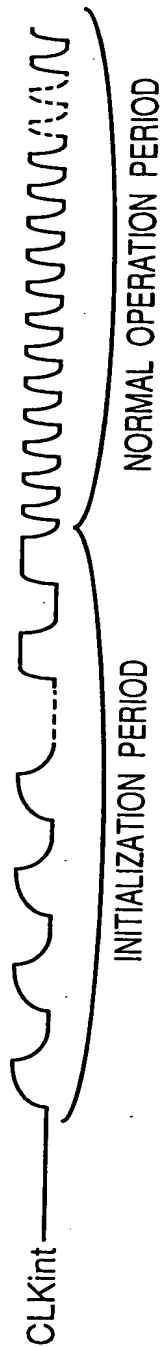




Fig. 6A



Fig. 6B

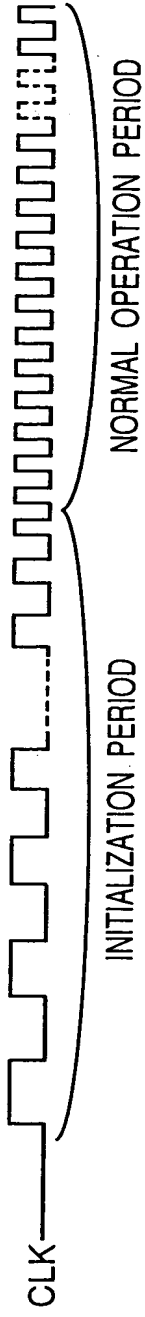


Fig. 7A



Fig. 7B



Fig. 7C

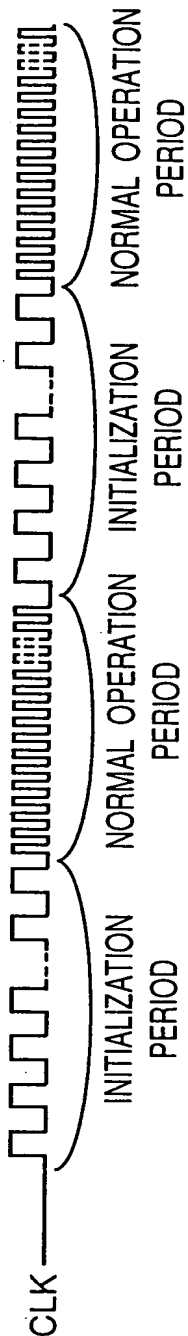




Fig.8

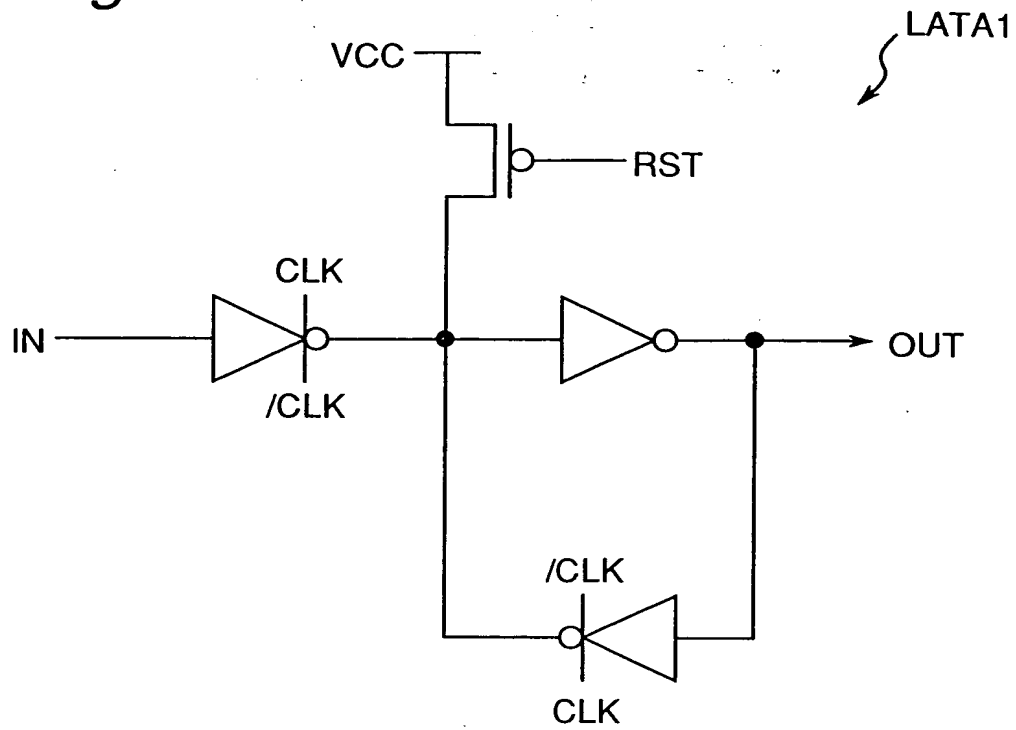


Fig.9

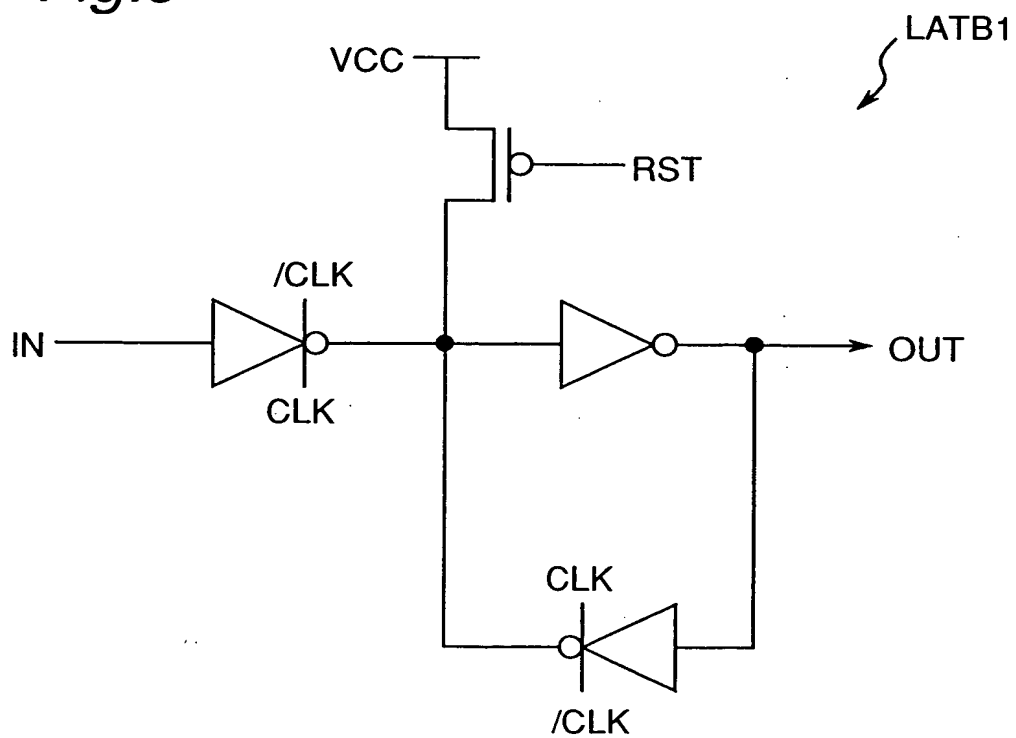




Fig. 10A VCC

Fig. 10B RST

Fig. 10C CLK

INITIALIZATION PERIOD

NORMAL OPERATION PERIOD

Fig. 11A PLS

Fig. 11B RST

Fig. 11C CLK

INITIALIZATION PERIOD

NORMAL OPERATION PERIOD

INITIALIZATION PERIOD

NORMAL OPERATION PERIOD



Fig.13

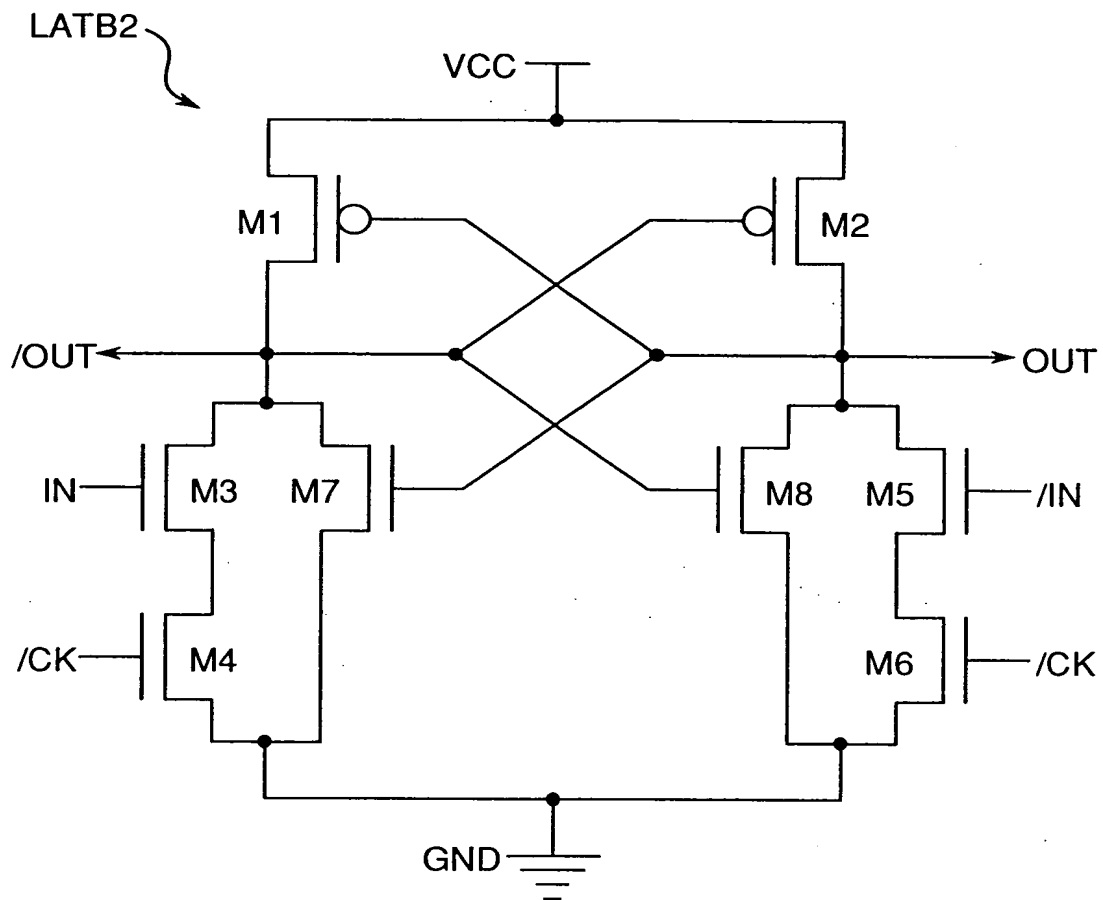


Fig. 14

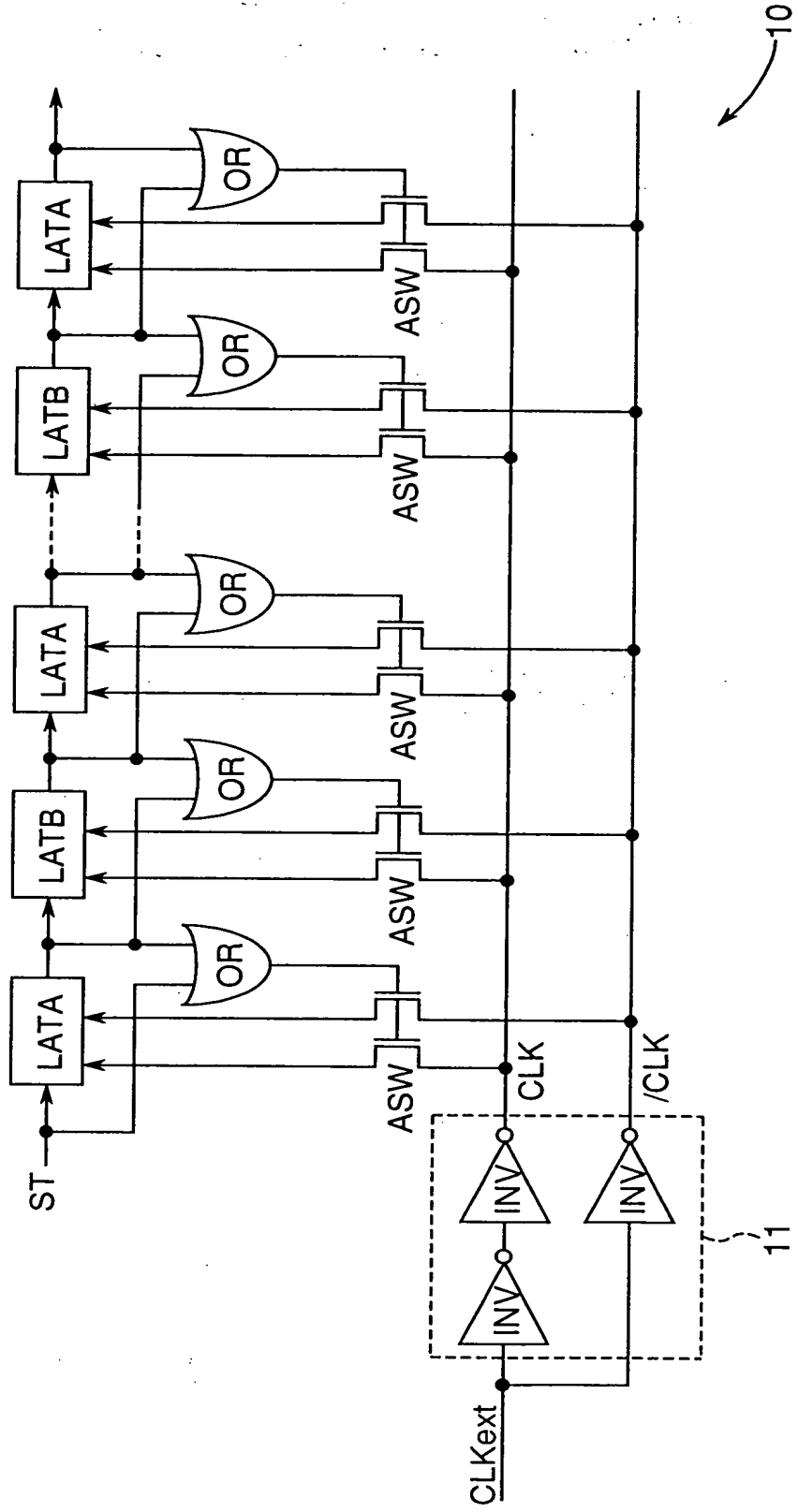




Fig. 15

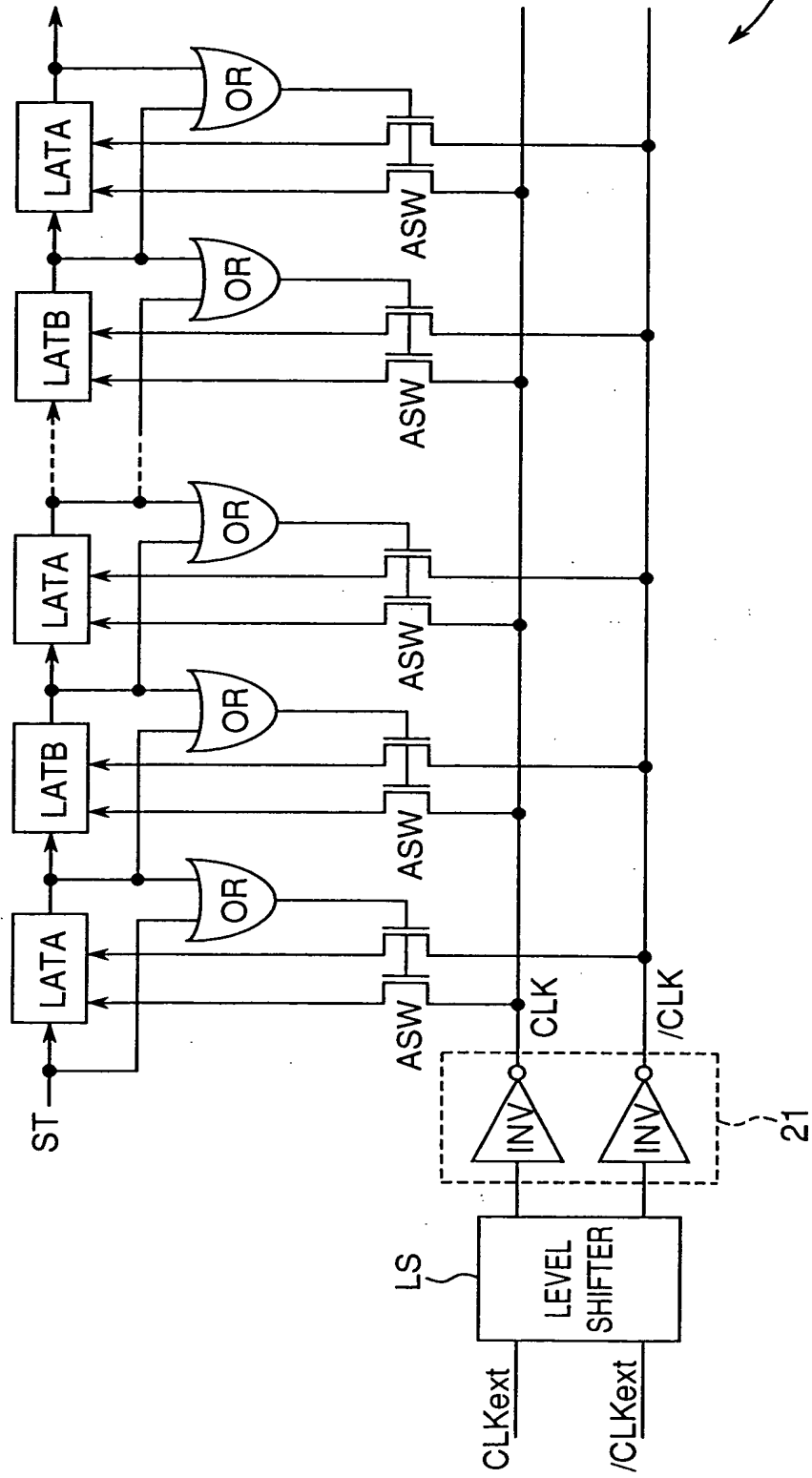




Fig. 16A

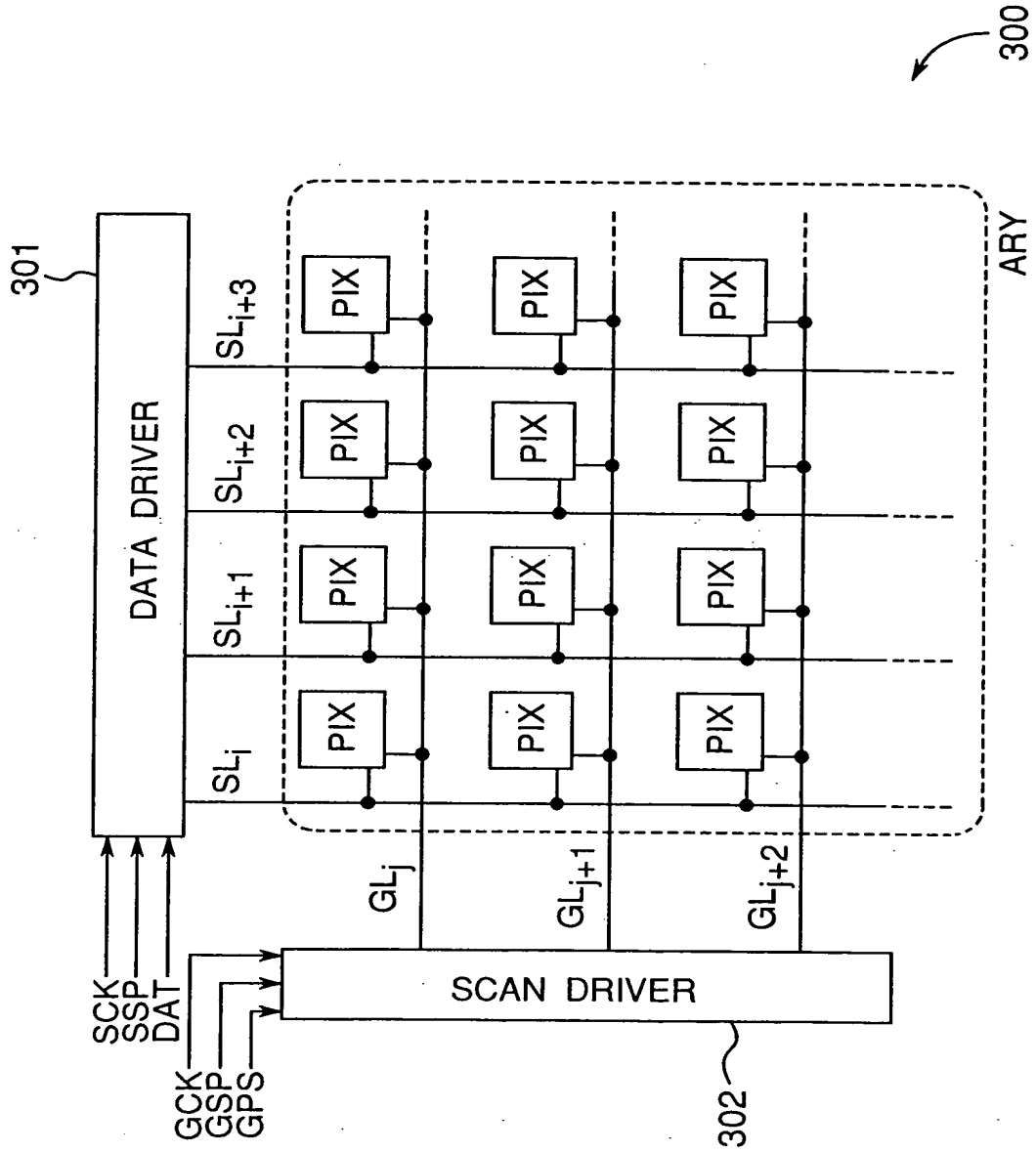




Fig. 16B

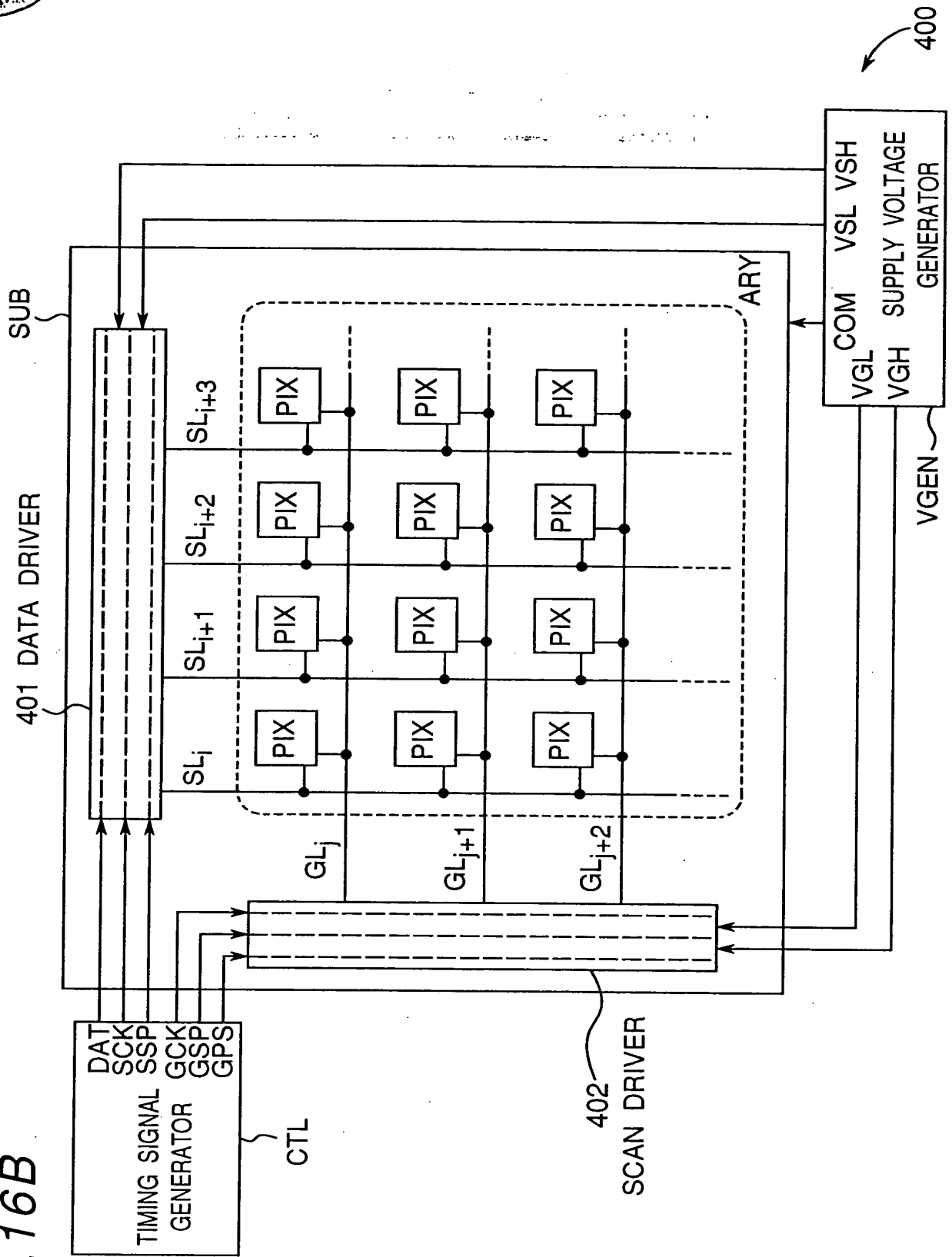




Fig.17

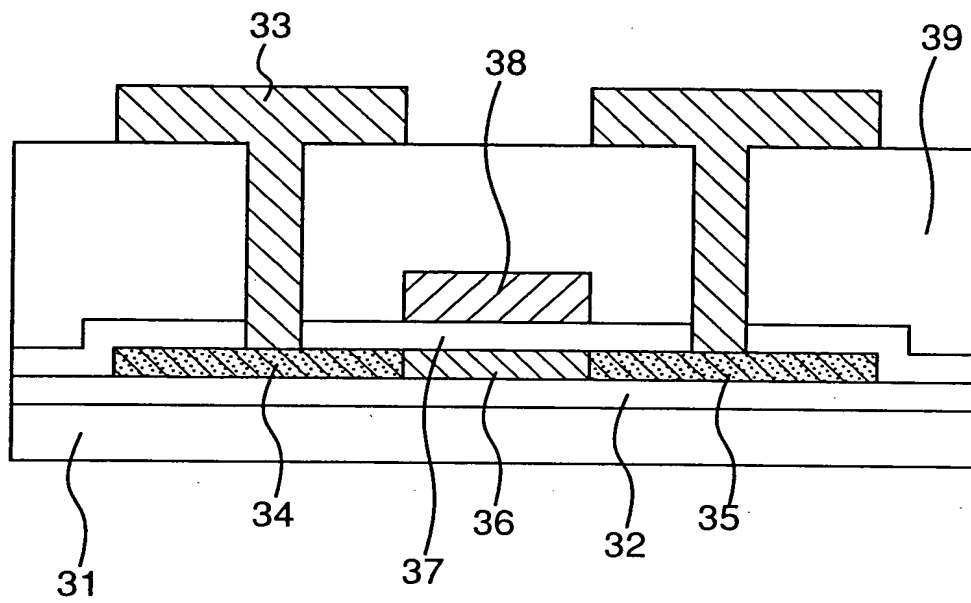




Fig. 18A

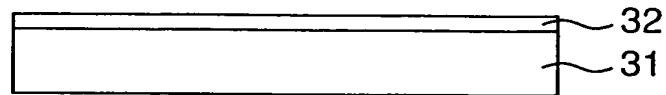


Fig. 18B

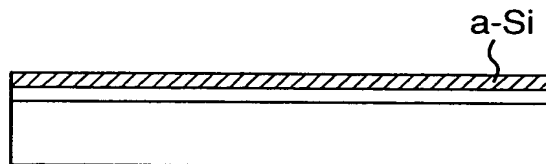


Fig. 18C

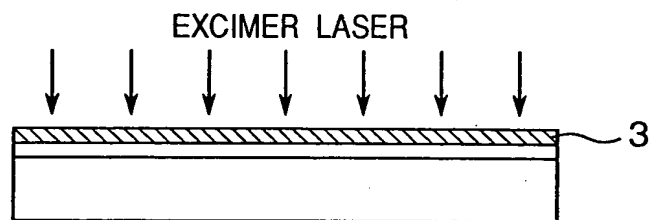


Fig. 18D

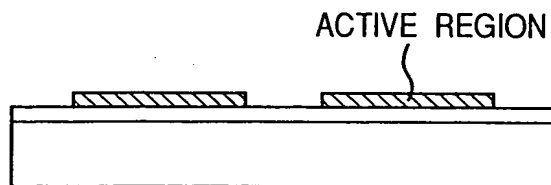




Fig.18E

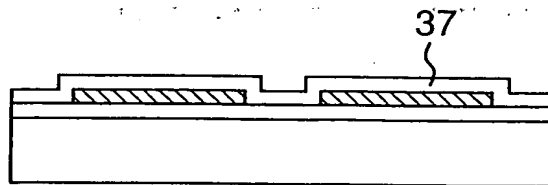


Fig.18F

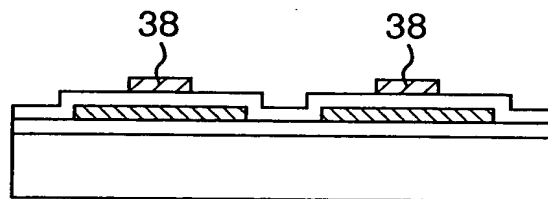


Fig.18G

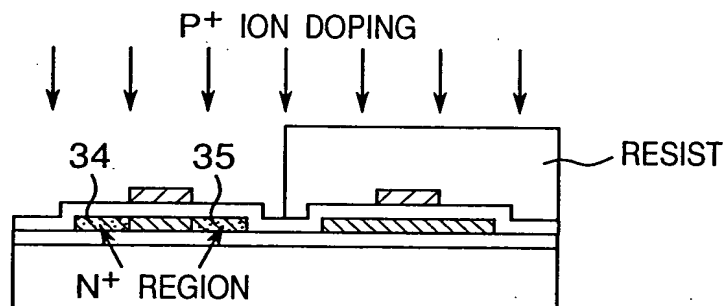


Fig.18H

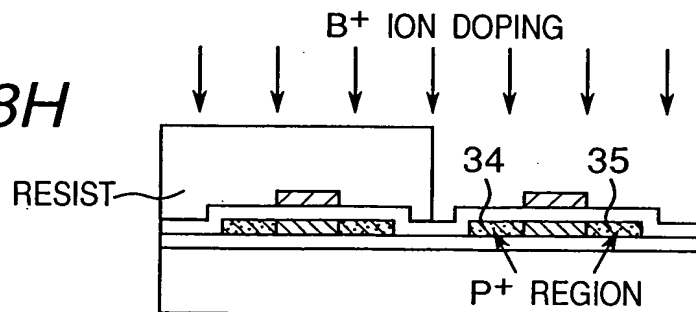




Fig.18I

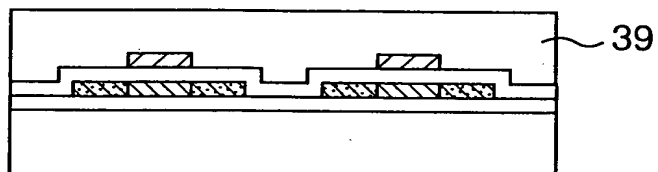


Fig.18J

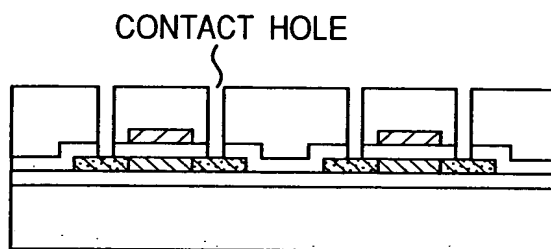


Fig.18K

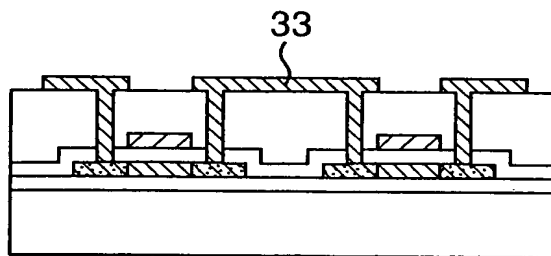




Fig.19 RELATED ART

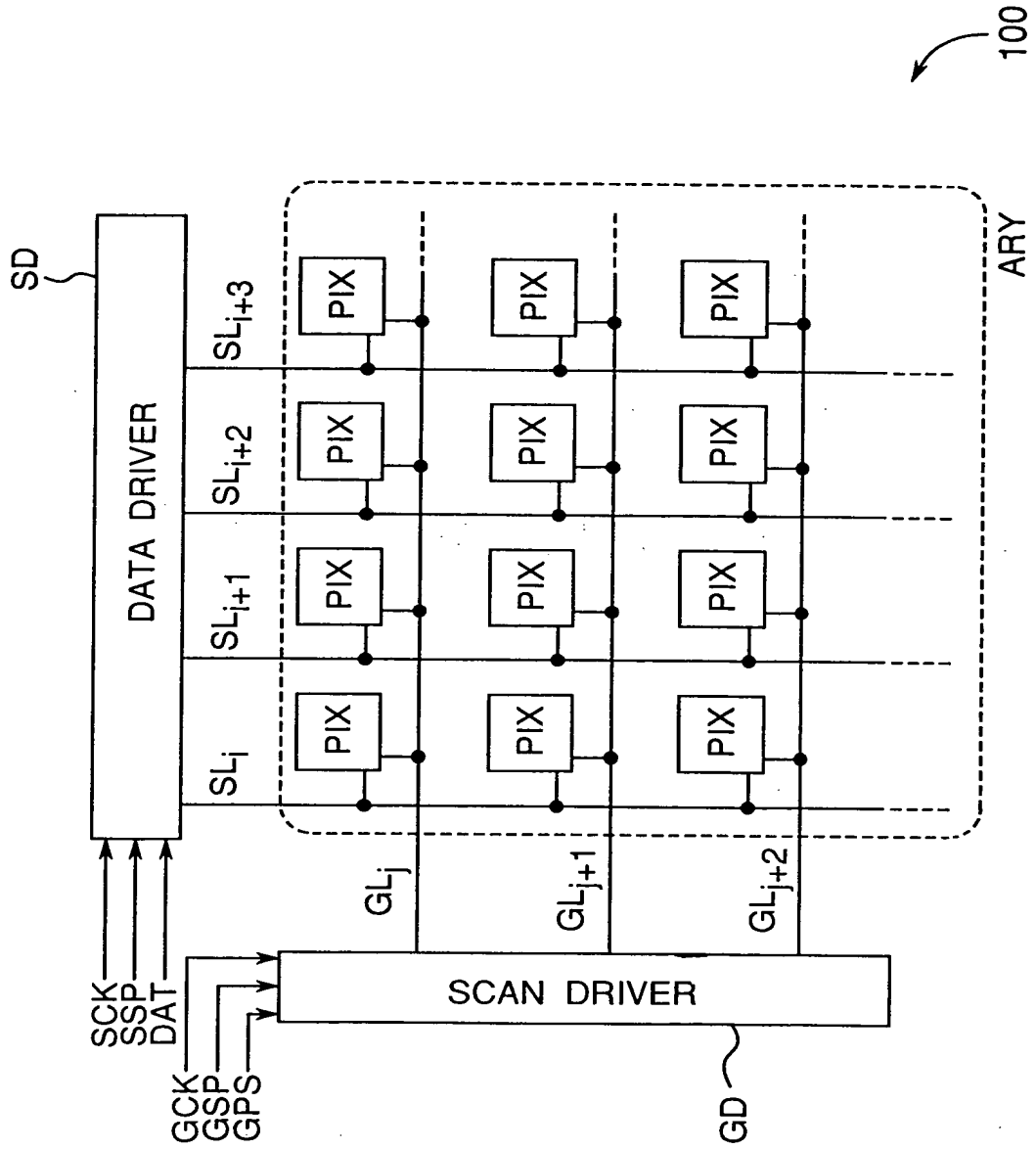




Fig.20 RELATED ART

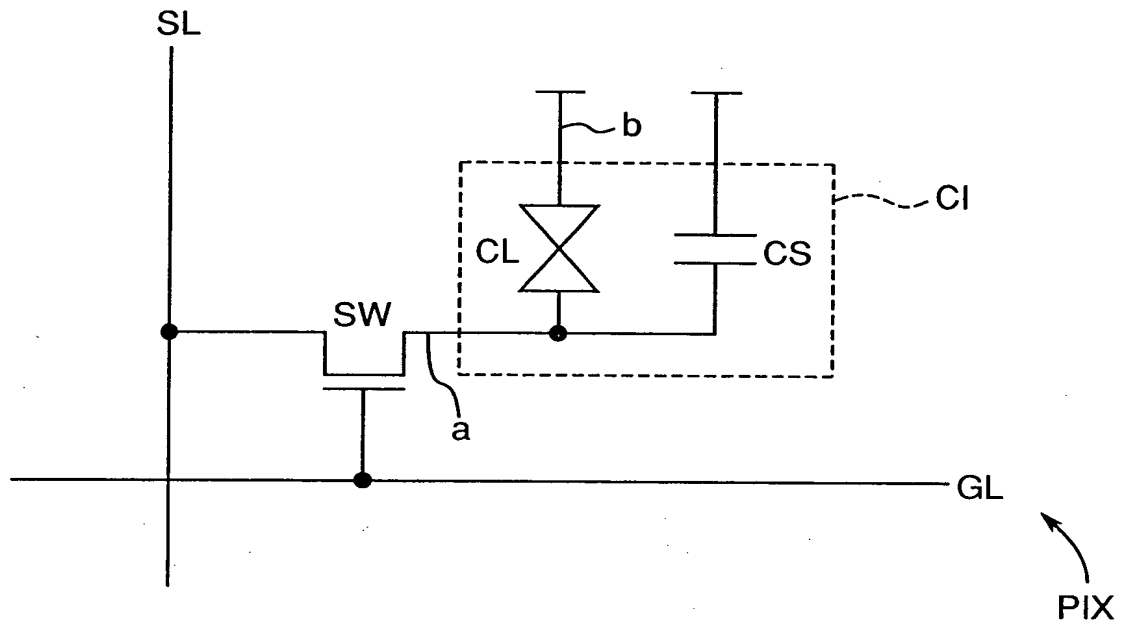


Fig.21 RELATED ART

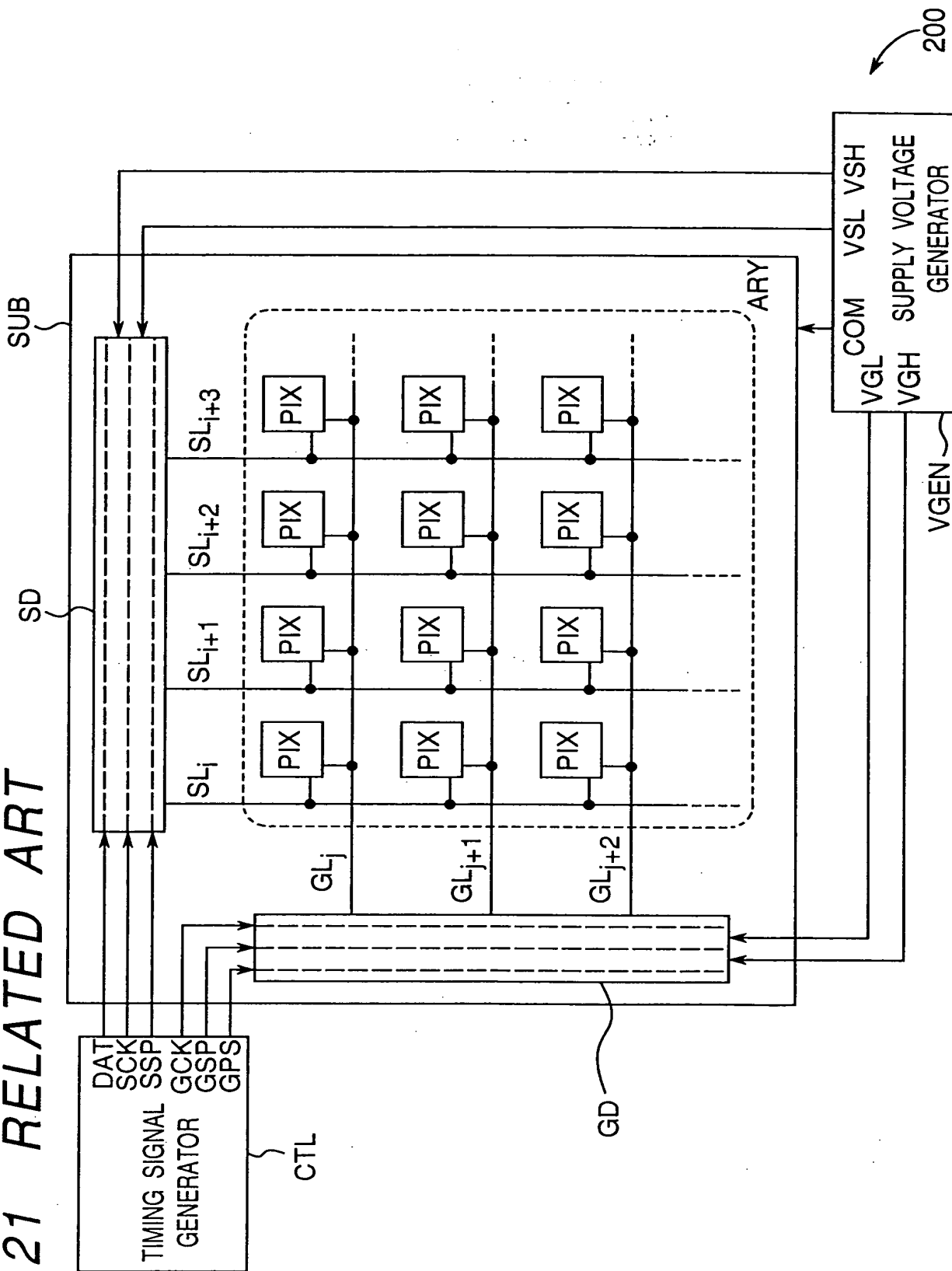




Fig.22 RELATED ART

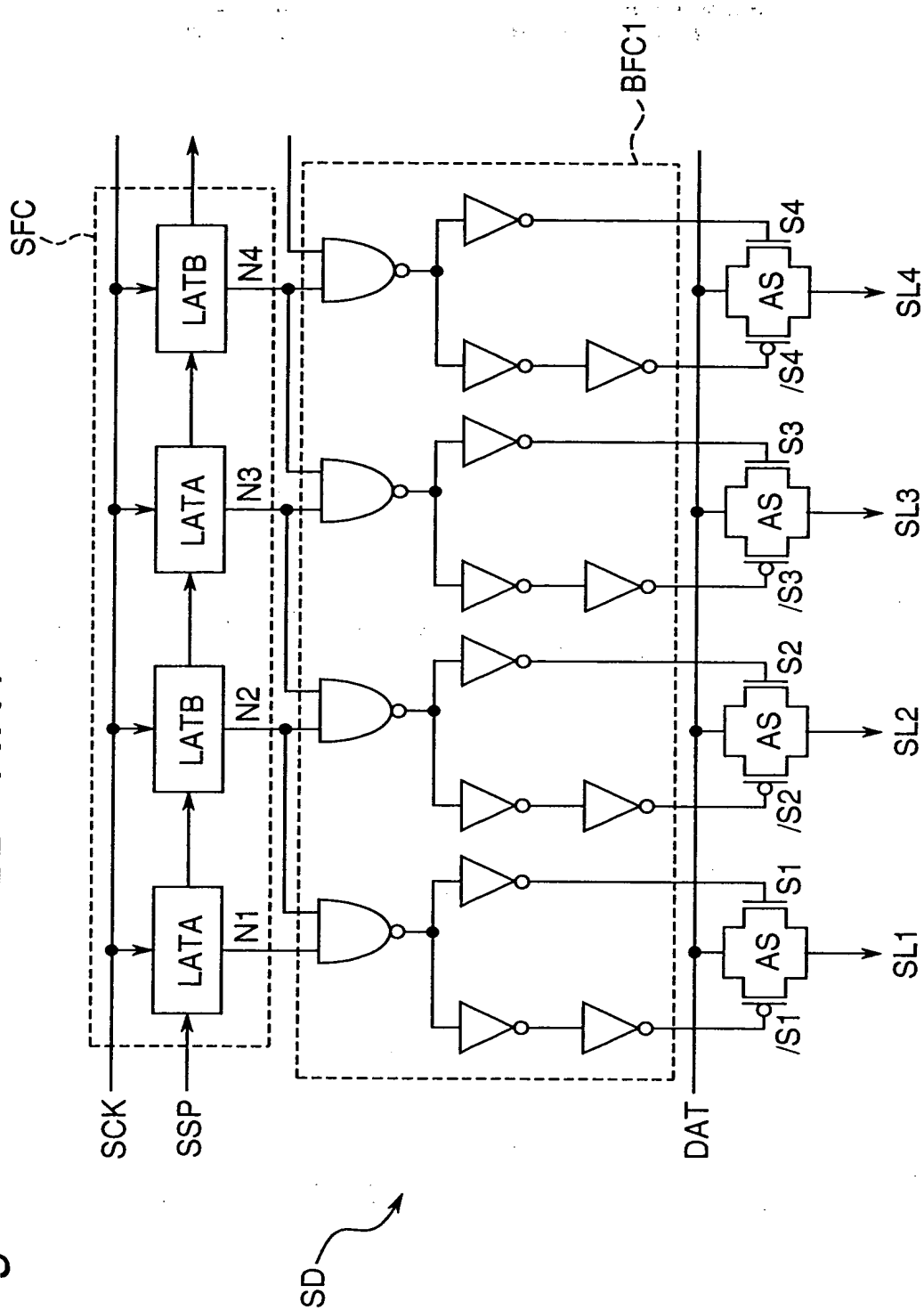




Fig.23 RELATED ART

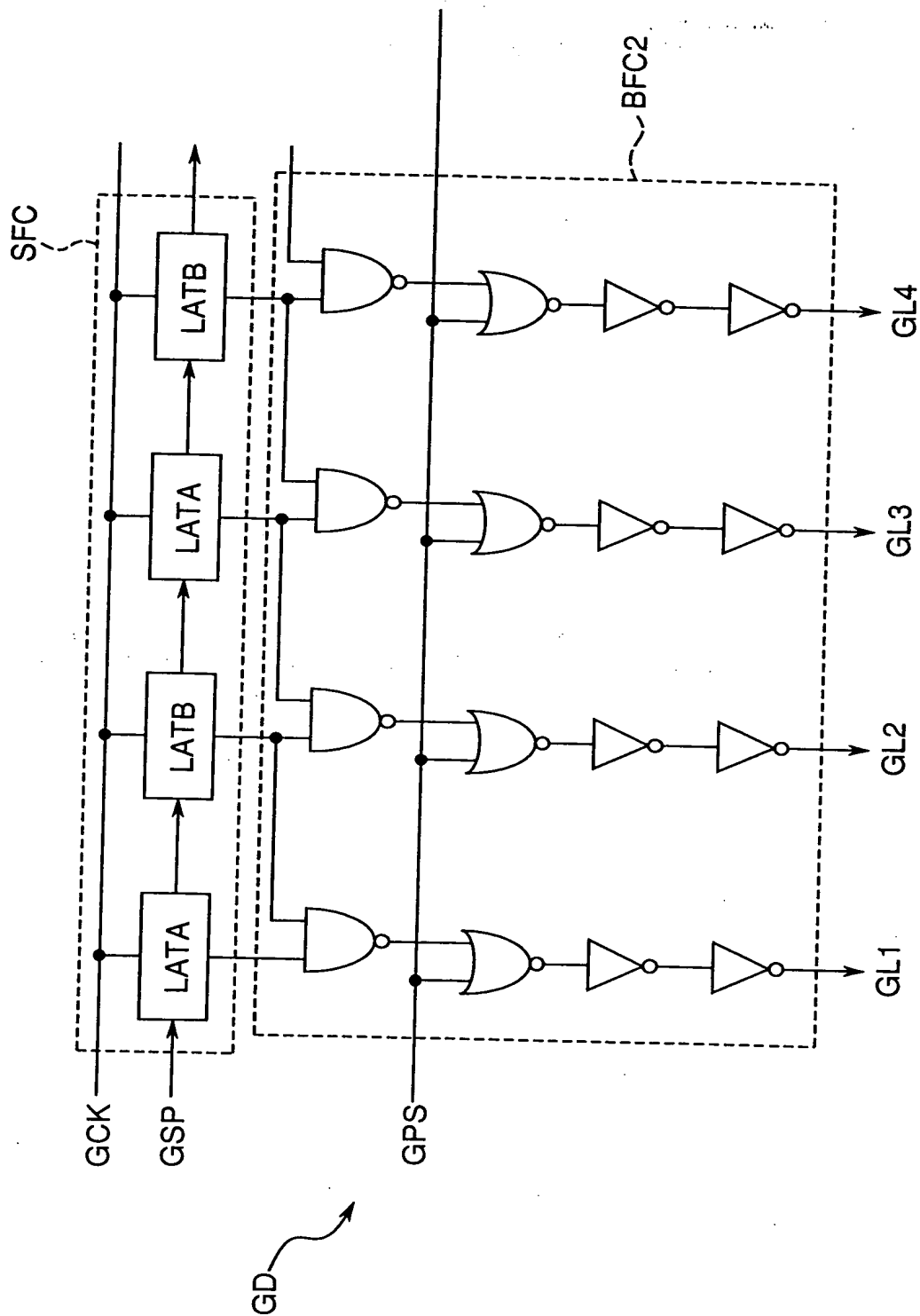




Fig.24 RELATED ART

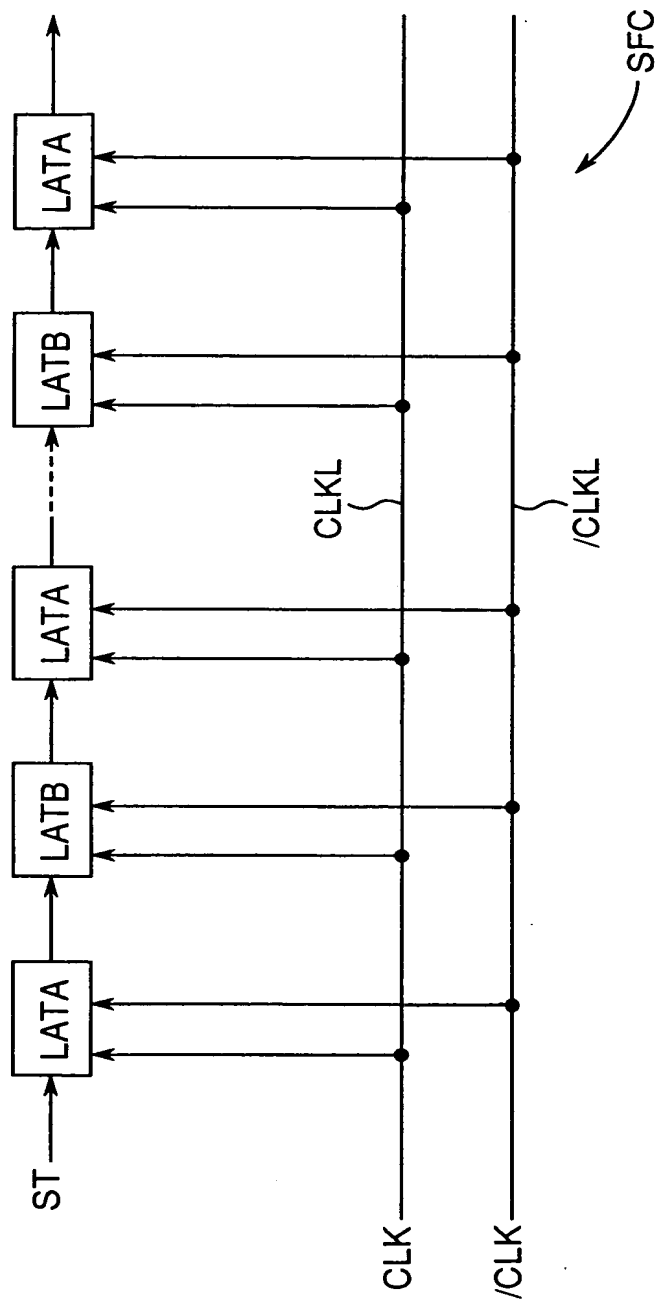




Fig.25A RELATED ART



Fig.25B RELATED ART

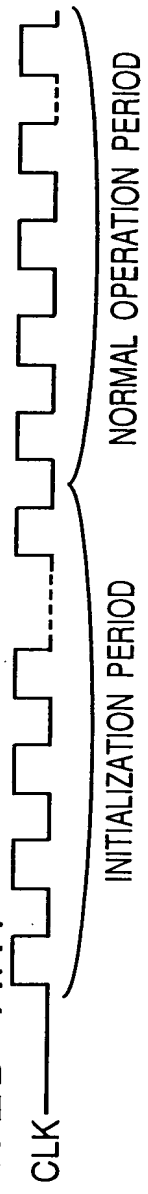




Fig.26 RELATED ART

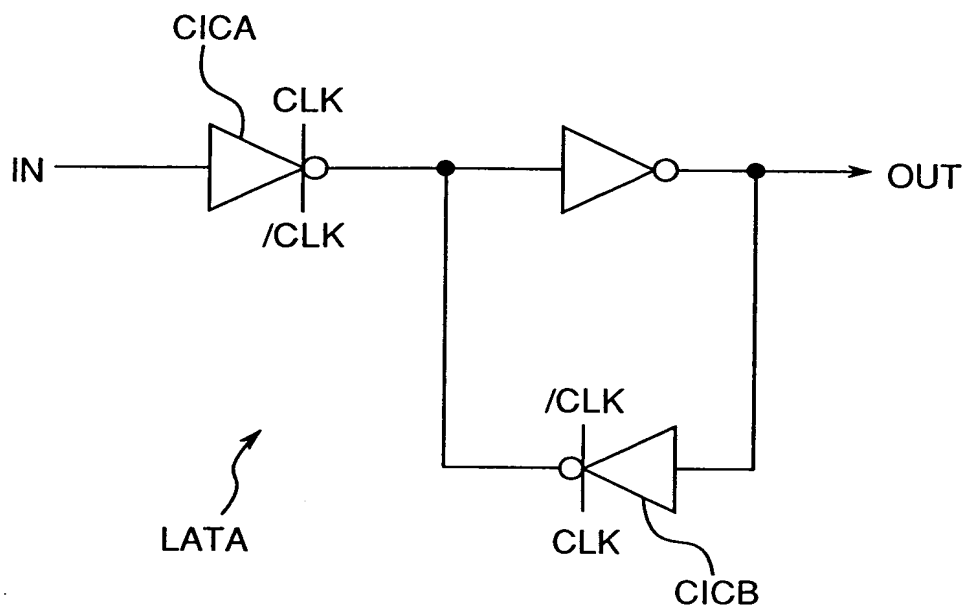


Fig.27 RELATED ART

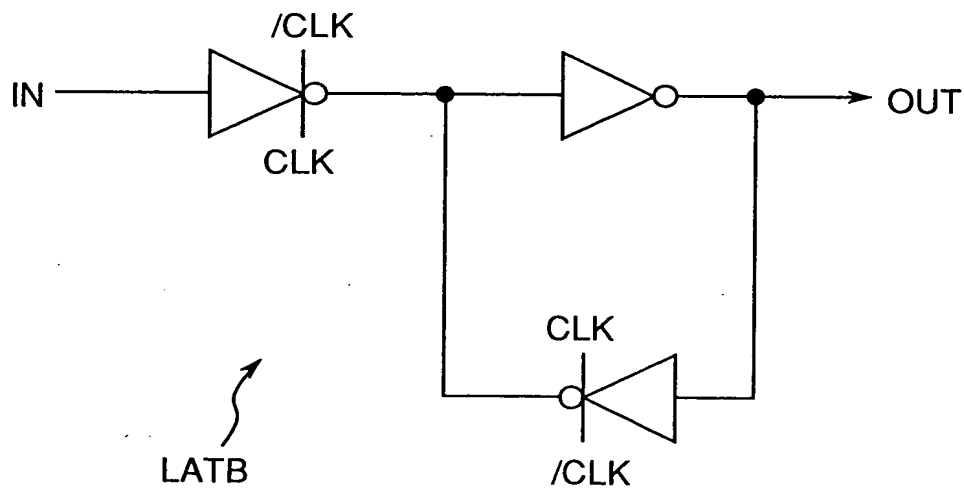




Fig.28 RELATED ART

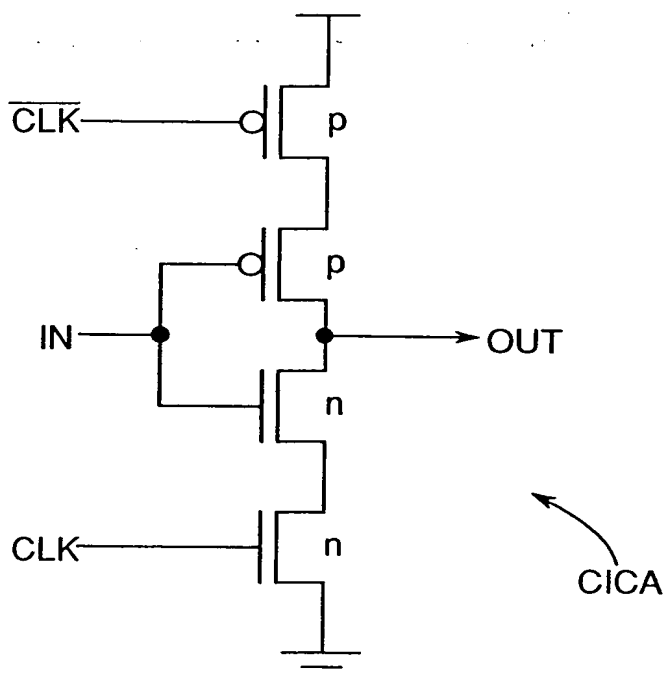


Fig.29 RELATED ART

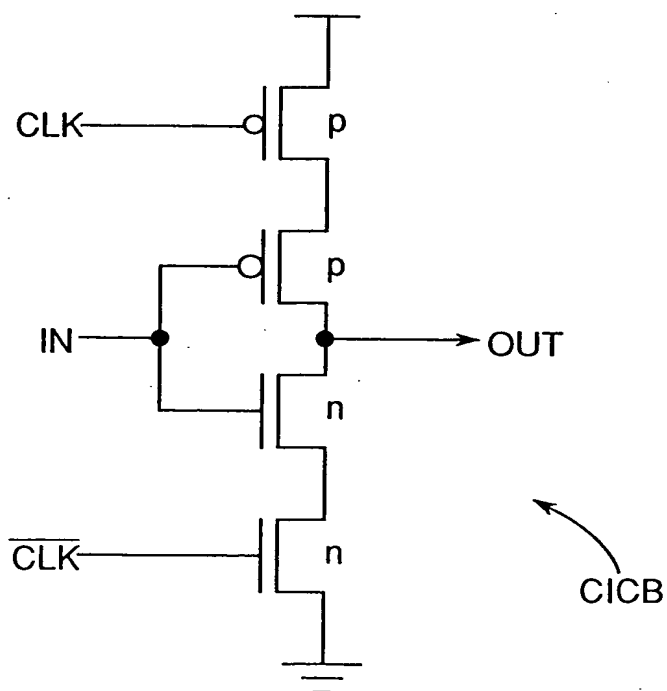




Fig. 30A

HSYNC



Fig. 30B

SCAN DRIVER START SG.



Fig. 30C

SCAN DRIVER CLOCK



Fig. 30D

DATA DRIVER START SG.



Fig. 30E

DATA DRIVER CLOCK



VIDEO DISPLAY PERIOD

2ND BLACK

STABILIZATION

1ST BLACK

1ST

STABILIZATION

PERIOD

PERIOD

PERIOD

PERIOD

PERIOD

PERIOD

PERIOD

PERIOD



Fig.31A

HSYNC

Fig.31B

SCAN DRIVER START SG.

Fig.31C

SCAN DRIVER CLOCK

Fig.31D

DATA DRIVER START SG.

Fig.31E

DATA DRIVER CLOCK

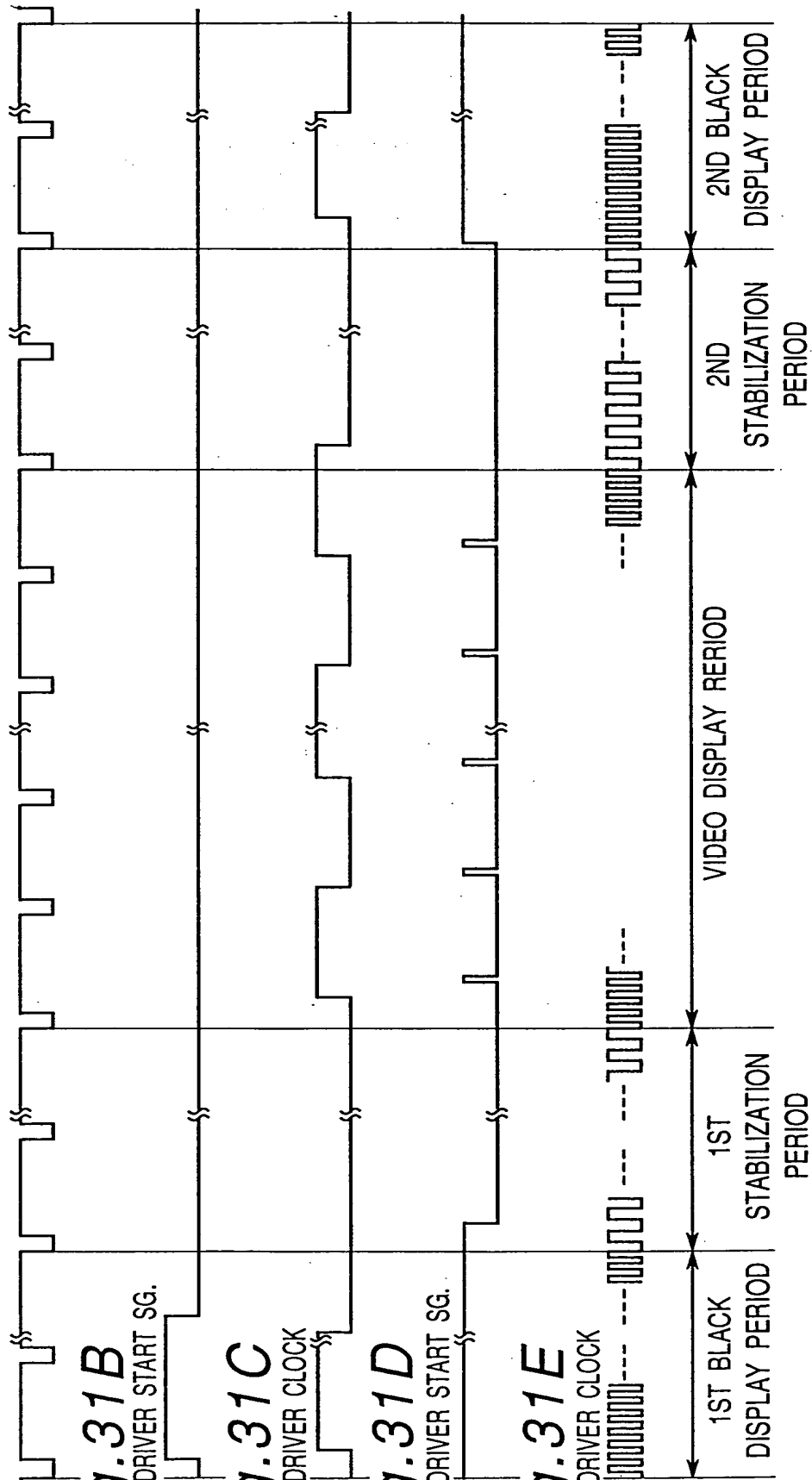
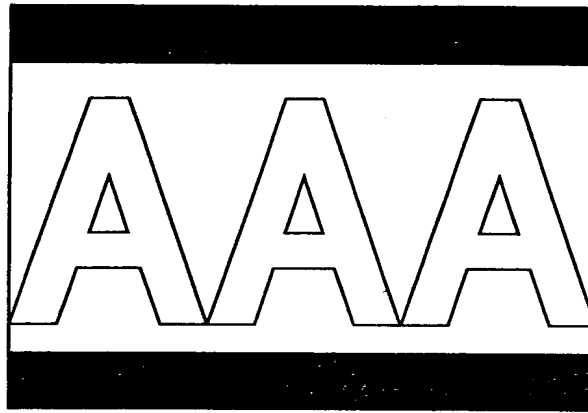




Fig.32 RELATED ART



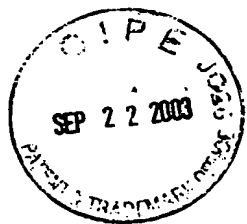


Fig.33A RELATED ART

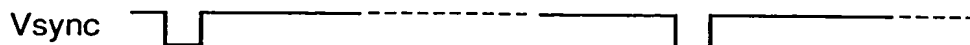


Fig.33B RELATED ART

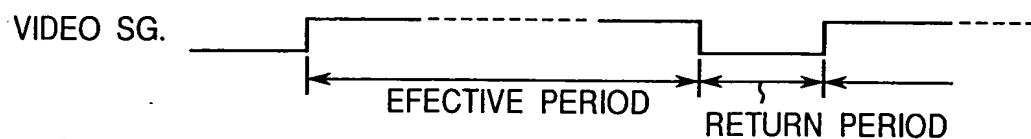


Fig.33C RELATED ART

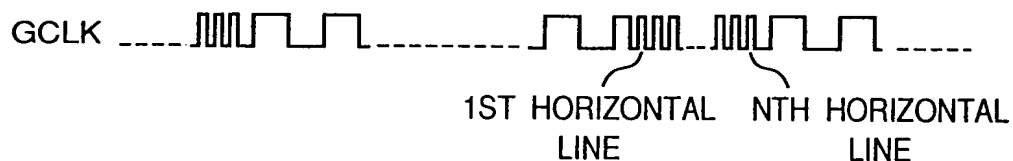


Fig.34 RELATED ART

